

## **ABSTRACT OF THE DISCLOSURE**

In some embodiments, a code generating system comprises a compiler that receives source code written in a high-level programming language and generates object code and intermediate code. In addition, the code generating system comprises a linker that receives the object code and the intermediate code and sends the intermediate code to a code optimizer that is coupled to the compiler. In some embodiments, the intermediate code generated by the compiler is stored in a magnetic storage device before being sent to the linker. In other embodiments, the intermediate code is stored in non-volatile memory before being set to the linker.